**Term Two- Week Six**

**Grade 6 Homework**

**English**

**Time Capsules**

If you were to choose five items to put in a container that would represent the important things you know about **The Brain**, what would they be?

***Create a list, accompanied by a picture for each, of these items and explain why you included that in your time capsule.***

**Spelling, Grammar and Punctuation**

**Compound Concentration**

Using the lists of words below, create as many possible **compound words**. Use the example below to help you.

e.g. Flag and pole = flag pole.

* straw
* drum
* berry
* fly
* green
* play
* cat
* hand
* house
* litter
* room
* base
* meal
* out
* ball

**Inquiry**

*Everything we can see has a colour. Around us, in our homes, at work, in nature, in space - it is universal; everywhere has a colour, of some sort.*

*In 1666, English scientist Sir Isaac Newton discovered that when pure white light passes through a prism, it separates into all of the visible colors. Newton also found that each color is made up of a single wavelength and cannot be separated any further into other colors.*

*When light strikes the human eye, the wavelengths do so in different ways, influencing our perceptions. In the retina of our eye, they are converted into electrical impulses that pass to the hypothalamus, which affects the endocrine system and governs emotional behavior.*

*Colour is energy and the fact that it has a physical effect on us has been proved time and again in experiments.*

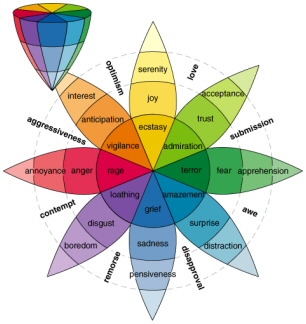
***For homework you are going to conduct your own experiment regarding colour therapy.***

***Experiment:***

*Colour not only affects the way we feel and behave but it also has a big impact on businesses and advertising. This week you will need to keep a record of different companies and document the different colours used in businesses. Select* five *different locations and* five *different advertisements and for each you will need to write why you think that colour was chosen. For example, the netball centre is painted orange to help the customers have fun and encourage physical exercise and the McDonalds logo is red and yellow to stimulate excitement and happiness in the cliental.*

*You may wish to use the following website to assist you in your investigations:*

[*http://www.colour-affects.co.uk/psychological-properties-of-colours*](http://www.colour-affects.co.uk/psychological-properties-of-colours)

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**Maths**

A great way to help our brain is to exercise it! Below are a range of puzzles and brainteasers to exercise your brain!

**Rebus Puzzles**

Write your answer underneath the puzzle





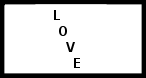








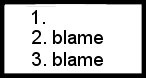


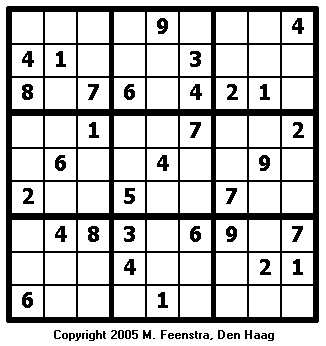






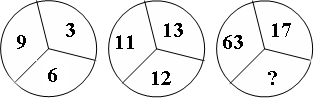




 **Sudoku**

**Missing Number**

Below are 3 circles. In each of the circles there are numbers that have a common connection. Discover the connection between the numbers and fill in the missing number.



**Crossing the river**

A man wanted to cross the river with a dog, a cat and a mouse. He could only take one at a time in his boat.

*Remember:*

If he leaves the dog and the cat together, the dog might harm the cat.

If he leaves the cat and the mouse together, the cat might harm the mouse.

That being said, **how will the man get the trio safely to the other side of the river making sure that no animal harms another?**

**Shapes and numbers**

The numbers 0-9 have been changed to shapes. Here you have shape exercises. You must discover which number each shape represents.

